



1991 IFIM Surveys

1997 2-foot contour mapping

August 2002 Survey

1991 Water Surface

2002 Water Surface

CONTROL POINT DATA

L-46 (concrete and pipe)
Northing: 2280856.674
Easting: 6668052.187
Elevation: 94.58'

L-45 (concrete and pipe)
Northing: 2280879.350
Easting: 6667706.628
Elevation: 95.18'

TRANSECT DATA
Length (2002): 1053.88
Length (1991): 346.23'

GAGE DATA (from USGS)

Oroville Gage:
7/21/92: 627cfs
11/26/02: 636cfs
Gridley Gage:
7/21/92: 3070cfs
11/26/02: 2067cfs

Azimuth: 86°7'36"
Azimuth: 86°7'36"

LEGEND

1) Land surveys, depth soundings, and velocities for the 1992 IFIM surveys were conducted on July 21, 1992.

2) Assumed elevations for the control points were converted to actual elevations by a level survey performed by DWR-Land and Right-of-Way in June 1996.

3) The 1997 cross-section was generated from 2-foot contour topographic mapping from the U.S. Army Corps of Engineers (COE) Comprehensive Study. The actual cross-section was generated using Land Developer and AutoCad software.

4) The 2002 cross-section was surveyed in June 2002. Coordinates for the IFIM control points were generated using a RTK GPS survey with a Trimble backpack 4700 receiver. Distances and elevations were measured along section with conventional total station surveying equipment.

5) Elevations are referenced to the National Geodetic Vertical Datum of 1929 (NGVD29).

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

SP--G2 -- Task 3
Appendix C -- Plate 2
Channel Changes -- 1992 - 2002
Hour Riffle -- Transect 1
RM 56.21

Prepared by:
JHM -- DWR

Date
8/20/ 04

Filename
CrossSectionComparisons--IfIM-jhm-

Filename:N:\RAID1\Geo\EMPLOYEES\mudlen\FeatherRiver\Task 3 IFIM Cross Sections\CrossSectionComparisons--IfIM-jhm--2004-08-15.dwg
Layout Name:Hour1 Plot Time: Aug 20, 2004 - 7:54am